

Request for Comment: Landsat Data Continuity Mission (LDCM) Application of General Environmental Verification Specification (GEVS) for STS and ELV Payloads, Subsystems, and Components

Date: 6/6/2006

The LDCM project is soliciting industry input regarding the application of the General Environmental Verification Specification (GEVS) for STS and ELV Payloads, Subsystems, and Components (Dated May 2005) to the LDCM mission development. The LDCM Project Office intends to establish a tailored version of the specification for application to the planned LDCM contract. The objective of this request for comment is to solicit industry ideas for tailoring the specification to reduce project costs and schedule without significantly impacting mission quality, safety, performance, or risk. The GEVS can be found at <http://msc-docsrv.gsfc.nasa.gov/cmdata/170/STD/GEVS-STD-7000.pdf>

It is understood that environmental test guidelines are highly dependent on the specific bus and instrument designs and materials used. The current version of the GEVS is being reviewed to determine if there are particular requirements that should be tailored for the LDCM project. The following notes apply to the LDCM development when reviewing the GEVS for input:

1. All STS (and "Orbiter") references and associated test requirements do not apply to this mission.
2. The LDCM is a "Class B" mission (High priority/low risk, stringent assurance standards with only minor compromises in application to maintain a low risk to mission success). See NASA NPR 8705.4 for further details.
3. The assumed launch vehicle environment shall be a medium class launch vehicle (e.g. Delta II).
4. The nominal orbit for the LDCM mission will be near-circular 705 km Low Earth Orbit at 98.2° inclination (sun-synchronous).
5. As part of the contract deliverables, the contractor will be required to deliver to the LDCM project a System Performance Verification Plan and an Environmental Verification Plan in response to the LDCM-tailored GEVS.
6. The requirements for magnetic properties defined in Section 2.5.4 of the GEVS are assumed not to be applicable to this mission.

Please submit responses by electronic mail to: B. Faye Johnson at betty.f.johnson@nasa.gov or Patricia Dombrowski at patricia.m.dombrowski@nasa.gov no later than 5:00 PM EST on June 13, 2006. Technical questions should be directed to: Cynthia Firman at cynthia.m.firman@nasa.gov.

All inputs received will be considered for inclusion in the tailored specification for LDCM. After completion of the tailoring process, it is the intent of the LDCM project to post the tailored version of the specification to its project website and incorporate the document into the planned LDCM RFP.